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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/821,095	03/30/2001	Koichi Hashimoto	740250-837	2229

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EXAMINER

POPOVICI, DOV

ART UNIT PAPER NUMBER

2625

DATE MAILED: 07/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/821,095

Applicant(s)

HASHIMOTO ET AL.

Examiner

Dov Popovici

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 April 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☒ Claim(s) 2-5 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

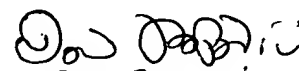
Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.


DOV POPOVICI
Primary Examiner
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Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Iwata et al (U.S. 4,514,826) in view of Ibaraki et al (U.S. 5,617,476).

As to claim 1, Iwata et al discloses an image processing apparatus comprising: At least two signal processor modules (PE1, PE2, see Fig. 3) interconnected with each other in series, each of the signal processor modules (PE) having an input port through which data is input, a memory (M11, B12, M13) which stores data, a signal processor portion (P) which carries out processing on input data according to a program and an output port (see fig. 3) through which data is output. Iwata et al shows in fig. 3 that the processor P has two outputs, one is connected to PE2 and the other is connected to the bus.

Iwata does not specifically states that at least one of the signal processor modules outputs in parallel both unprocessed input data and processed data obtained by processing the input data.

Ibaraki et al teaches a separator 81 in fig. 8 A, that outputs both processed data and unprocessed data in parallel (see fig. 8A).

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Therefore, it would have been obvious to one of ordinary skilled in the art to have modified Iwata et al wherein: the at least one of the signal processor modules outputs in parallel both unprocessed input data and processed data obtained by processing the input data.

^{D.P.}
7/3/06 The motivation for doing so would be ^{to} increase the speed of processing data in the second processor in a series of processors, whereby, the unprocessed data does not have to pass through the second processor in a series processing, so that the unprocessed data can be forward directly to the output port, while less data is passing through the subsequent processing module.

Allowable Subject Matter

Claims 2-5 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record (namely, Iwata et al (U.S. 4,514,826) and Ibaraki et al (U.S. 5,617,476) do not disclose, teach or suggest, processor stores within one cycle in the memory unprocessed data as input and processed data obtained by reading out and processing unprocessed data stored in the memory predetermined number of cycles before and outputs within one cycle through the output port unprocessed and processed data stored in the memory predetermined number of cycles before, and the

other processor stores within one cycle in the memory unprocessed as input and processed data obtained by reading out and processing unprocessed data stored in the memory predetermined number of cycles before and outputs within one cycle and outputs through the output port unprocessed input data stored in the memory predetermined number of cycles before, as claimed in claim 2.

The prior art of record (namely, Iwata et al (U.S. 4,514,826) and Ibaraki et al (U.S. 5,617,476) do not disclose, teach or suggest, a mounting means on which a signal processor module is removably mounted, provided for at least one of the processor modules; and a switching means is provided for said at least one processor module to transfer data to the processor module through its input port when it is mounted on the mounting means and to transfer the same to a component forward of the processor module when it is not mounted on the mounting means, as claimed in claim 5.

Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dov Popovici whose telephone number is 571-272-4083. The examiner can normally be reached on Monday-Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Dov Popovici
Primary Examiner
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